Abstract

In order to further develop a system (100) and a method for recording, transmitting and analyzing data and information (D and D*, resp.) accrued from, in particular low-frequency, electromagnetic radiation, where the electromagnetic radiation originates from at least one impulse source of natural and/or artificial origin, in particular from at least one atmospheric discharge (P) or from at least one transmitter (K), such that a precise characterization of the impulse source, for example a reliable differentiation between cloud-ground lightning (C[loud]G[round]) and cloud-cloud lightning (= I[ntra]C[loud] within a cloud, or C[loud-]C[loud] between clouds) is provided for, it is proposed to localize

- the altitude (H) of the impulse source, in particular the emission altitude or the broadcast altitude, and/or
- the directionality (C), in particular the spatial direction path, of the impulse emission or impulse broadcast caused by the impulse source,

by determining the difference between the arrival time of the signal (S) at the measuring station (20) located closest to the impulse source and the arrival time of the signal (S*) at at least one, preferably at least two, measuring stations (20*) which are not located closest to said impulse source.

Fig. 1